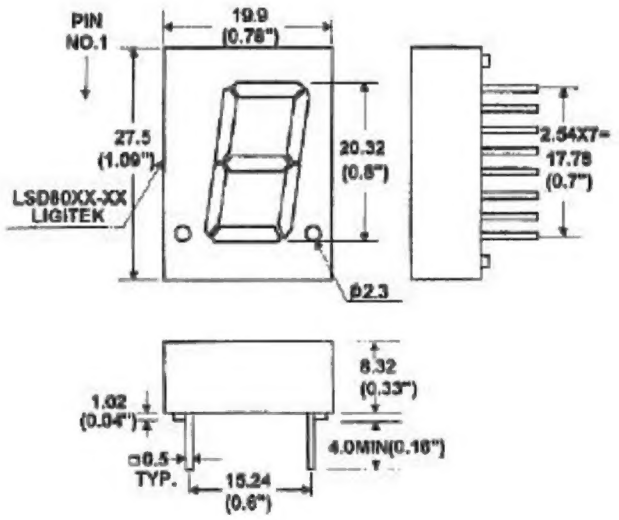
Jameco Part number 117997

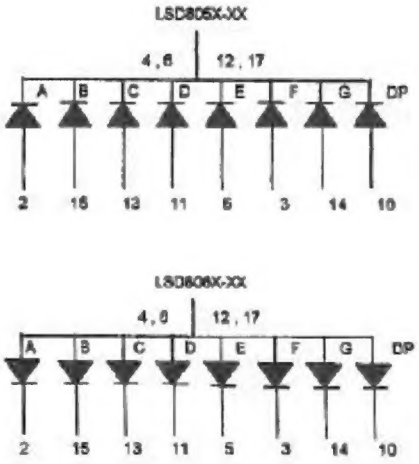
LIGITEK

SINGLE DIGIT LED DISPLAY (0.8 Inch) **LSD805X/6X** *series* *Page 1/2*

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance is ±0.25(0.01") Unless Otherwise Noted

• Connection To Electrical Schematic

Electrical Connection

PIN NO.	LSD805X=XX	PIN NO.	LSD806X=XX
1	No Pin	1	No Pin
2	Anode A	2	Cathode A
3	Anode F	3	Cathode F
4	Common Cathode	4	Common Anode
5	Anode E	5	Cathode E
6	Common Cathode	6	Common Anode
7	No Connect	7	No Connect
8	No Pin	8	No Pin
9	No Pin	9	No Pin
10	Anode DP	10	Cathode DP
11	Anode D	11	Cathode D
12	Common Cathode	12	Common Anode
13	Anode C	13	Cathode C
14	Anode G	14	Cathode G
15	Anode B	15	Cathode B
16	No Pin	16	No Pin
17	Common Cathode	17	Common Anode
18	No Pin	18	No Pin
: QW0905-S805/6X-XX		. A	Jun. 8. 1996

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SINGLE DIGIT LED DISPLAY (0.8 inch) **LSD805X/6X** *series*

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• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		Common cathode or anode	ëp	ë	Electrical					IV=M
				(nm)	(nm)	Vf(v)			IV(mcd)		
	material	*emitted*				*Min*	*Typ.*	*Max*	*Min*	*Typ.*	
LSD8055-XX	GaAIAs	Red		660	20	1.5	1.7	2.4	2.4	4.0	2:1
LSD8051-XX	GaP	Red		697	90	1.7	2.1	2.8	0.6	1.0	2:1
LSD8052-XX	GaP	Green	Common Cathode	565	30	1.7	2.1	2.8	1.8	3.0	2:1
LSD8053-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.6	2.7	2:1
LSD8054-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.8	3.0	2:1
LSD8065-XX	GaAIAs	Red		660	20	1.5	1.7	2.4	2.4	4.0	2:1
LSD8061-XX	GaP	Red		697	90	1.7	2.1	2.8	0.6	1.0	2:1
LSD8062-XX	GaP	Green	Common Anode	565	30	1.7	2.1	2.8	1.8	3.0	2:1
LSD8063-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.6	2.7	2:1
LSD8064-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.8	3.0	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red		Green	Yellow	Orange	Unit	Remark
Forward Current Per Chip	*SR*	*H*	*G*	*Y*	*E*		
	40	15	30	20	30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200	60	120	80	120	mA	
Power Dissipation Per Chip	110	45	100	85	100	mW	
Derating Linear From 25°C Per	0.45	0.25	0.45	0.45	0.45	mA/°C	
Chip							
Reverse Current Per Any Chip	10		10	10	10	ì A	
Operating Temperature	-25°C TO +85°C						
Storage Temperature	-25°C TO +85°C						

Solder Temperature 1/16 inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	Volt	If=20mA
Luminous Intensity Per Chip	Iv	Mcd	If=10mA
Peak Emission Wavelength	ëp	Nm	If=20mA
Spectral Line Half-Width	ë	Nm	If=20mA
Reverse Current Any Chip	Ir	ì A	Vr=5V
Luminous Intensity Matching Ratio	IV-M		

Jameco Part number 117997

LTS-3401AE

0.8 INCH SINGLE DIGIT NUMERIC DISPLAYS

FEATURES

* 0.8 INCH (20.32 mm) DIGIT HEIGHT.
* EXCELLENT CHARACTERS APPEARANCE.
* HIGH CONTRAST AND BRIGHTNESS.
* CONTINUOUS UNIFORM SEGMENTS.
* LOW POWER REQUIREMENT.
* CATEGORIZED FOR LUMINOUS INTENSITY.
* EASY MOUNTING ON P.C. BOARD.
* SOLID STATE RELIABILITY.
* I.C. COMPATIBLE.
* WIDE VIEW ANGLE.

LED MATERAL & VISUAL

PART NO.	LED MATERIAL	VISUAL		
		FACE	SEGMENT	
LTS-3401AE	GaASP ON A TRANSPARENT GaP SUBSTRATE	GRAY	WHITE	

ABSOLUTE MAXIMUM RATINGS Ta=25°C

PARAMETER	ORANGE	UNIT
POWER DISSIPATION PER SEGMENT	75	mW
PEAK FORWARD CURRENT PER SEGMENT (1/10 DUTY CYCLE		
0.1ms PULSE WIDTH)	100	mA
CONTINUOUS FORWARD CURRENT PER SEGMENT	25	mA
DERATING LINEAR FROM 25°C PER SEGMENT	0.3	MA/°C
REVERSE VOLTAGE PER SEGMENT	5	V
OPERATING TEMPERATURE RANGE	-25°C to +85°C	
STORAGE TEMPERATURE RANGE	-25°C to +85°C	
SOLDER TEMPERATURE 1/16 inch BELOW SEATING PLANE FOR 3 SECONDS AT 260°C		